

Message

From: Maribeth Greenslade [greenslade.maribeth@azdeq.gov]
Sent: 8/21/2019 6:21:19 PM
To: Rumrill, Nancy [Rumrill.Nancy@epa.gov]
CC: Joshua Litt [litt.joshua@azdeq.gov]
Subject: Fwd: Update on Brine Wells

Hi Nancy,
Josh Litt from our Groundwater Protection Compliance group will observe the MIT at Morton.
Maribeth

Maribeth Greenslade

Associate Environmental Engineer, Groundwater Protection
Ph: 602 771-4578



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From: Joshua Litt <litt.joshua@azdeq.gov>
Date: Wed, Aug 21, 2019 at 9:55 AM
Subject: Re: Update on Brine Wells
To: Jerry Smit <smit.jerry@azdeq.gov>
Cc: Maribeth Greenslade <greenslade.maribeth@azdeq.gov>, Monica Phillips <phillips.monica@azdeq.gov>

I will go. This is something that can further the UIC training I received.

Joshua Litt

Environmental Science Specialist 2, Groundwater Protection

P: 602-771-4805



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On Wed, Aug 21, 2019 at 9:49 AM Jerry Smit <smit.jerry@azdeq.gov> wrote:
Sorry I am out of office

Jerry Smit, R.G.

Senior Hydrogeologist, Groundwater Protection

Ph: 602-771-4827



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On Wed, Aug 21, 2019 at 8:50 AM Maribeth Greenslade <greenslade.maribeth@azdeq.gov> wrote:
Can one of you plan on going out to Morton Salt to observe the MIT? Nancy Rumrill from EPA is planning on being present at Morton September 11 at approximately 10 am.

Maribeth

Maribeth Greenslade

Associate Environmental Engineer, Groundwater Protection
Ph: 602 771-4578



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From: **Rumrill, Nancy** <Rumrill.Nancy@epa.gov>

Date: Tue, Aug 20, 2019 at 5:22 PM

Subject: RE: Update on Brine Wells

To: Garcia, Abraham <AGarcia2@mortonsalt.com>

Cc: Godfrey, Blaine <bgodfrey@mortonsalt.com>, Horvath, Vivian <VHorvath@mortonsalt.com>, Maribeth E. Greenslade <Greenslade.Maribeth@azdeq.gov>

Hi Abraham,

Please send the testing procedures and plan for the mechanical integrity test. I would like to be present during part of the testing and will be there on September 11 at approximately 10 am. Let me know if this works for your schedule.

Thanks, Nancy

Nancy Rumrill (rumrill.nancy@epa.gov)

Groundwater Protection Section (WTR-4-2)

US EPA, Region IX

75 Hawthorne St.

San Francisco, CA 94105

Phone (415) 972-3293

From: Garcia, Abraham <AGarcia2@mortonsalt.com>

Sent: Tuesday, August 20, 2019 2:10 PM

To: Rumrill, Nancy <Rumrill.Nancy@epa.gov>

Cc: Godfrey, Blaine <bgodfrey@mortonsalt.com>; Horvath, Vivian <VHorvath@mortonsalt.com>

Subject: RE: Update on Brine Wells

Hi Nancy,

For RB5, the well was unplugged the last week of June. In order to cut off the tubing in the well, it was necessary to cut off the top of the well head to fit the charge equipment down into the well. We were able to set up the well to run temporarily to make sure the plug was cleared, but could not perform an MIT with this set up. Our fabrication contractor has now rebuilt the well head back to original specifications. We have the MIT scheduled to start September 9th. We will submit results with the third quarter report.

RB3 well head piping is reassembled and our maintenance mechanics are in the process of running new electrical conduit for the meters. This work should be completed by next week.

Please let me know if you have any additional questions. Thank you.

From: Rumrill, Nancy [<mailto:Rumrill.Nancy@epa.gov>]
Sent: Thursday, August 15, 2019 4:40 PM
To: Garcia, Abraham <AGarcia2@mortonsalt.com>
Cc: Godfrey, Blaine <bgodfrey@mortonsalt.com>; Horvath, Vivian <VHorvath@mortonsalt.com>
Subject: RE: Update on Brine Wells

Hi Abraham,

I would like an update on completing RB-3 wellhead work and the status of RB-5 work. Sorry for the delay in following up with you. If you would like to discuss the work, please give me a call.

Thanks, Nancy

Nancy Rumrill (rumrill.nancy@epa.gov)

Groundwater Protection Section (WTR-4-2)

US EPA, Region IX

75 Hawthorne St.

San Francisco, CA 94105

Phone (415) 972-3293

From: Garcia, Abraham <AGarcia2@mortonsalt.com>
Sent: Friday, June 21, 2019 8:35 AM
To: Rumrill, Nancy <Rumrill.Nancy@epa.gov>
Cc: Godfrey, Blaine <bgodfrey@mortonsalt.com>; Horvath, Vivian <VHorvath@mortonsalt.com>
Subject: Update on Brine Wells

Good Morning Nancy,

As you know we've been having some issues with RB5. We were able to successfully cut off the end of the tubing and eliminate the plug in the tubing, unfortunately when we tried to pull up on the tubing to ensure that it was free, we found out now that we are plugged between tubing and casing. We are currently attempting to unplug the well by pressurizing the annulus between the casing and tubing. We are seeing a slight flow so it might take some time to unplug. Once we are able to get it unplugged and re-assemble the well head we will complete the MIT.

This week we also completed a sonar and a gamma/temp/caliper on RB3. The gamma/temp/caliper log was due in December, but we decided to complete it at this time since we had the well head open to complete the sonar. While this well is disassembled we are going to replace some of the well head piping, so this well will be out of service for several weeks.

The MIT for RB4 is due this month and we are requesting an extension. Due to production requirement in the summer months we need to keep RB4 operational. If possible we would like to complete the MIT in Q4 2019. RB4 has been consistently operating at an injection to discharge ratio of 1.02 (permitted range 0.95 to 1.10). There are no signs of any issues with this well. This will also push our MIT schedule from our summer months to our winter months which is more beneficial to our operations. Please let us know if this is acceptable. If you have any additional questions please let me know. Thank you.



Abraham Garcia

EHS Manager-Glendale

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